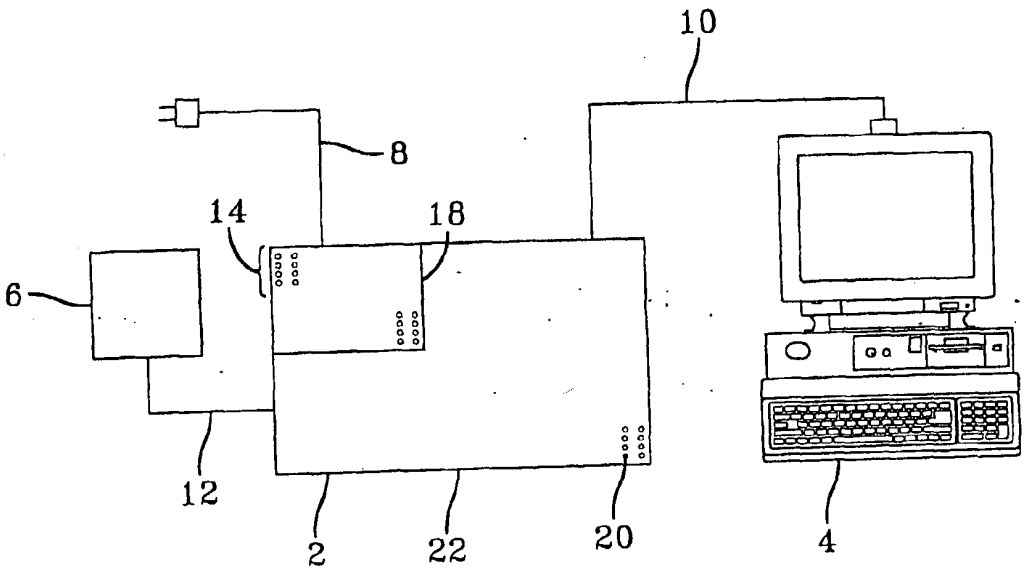

FIG–1

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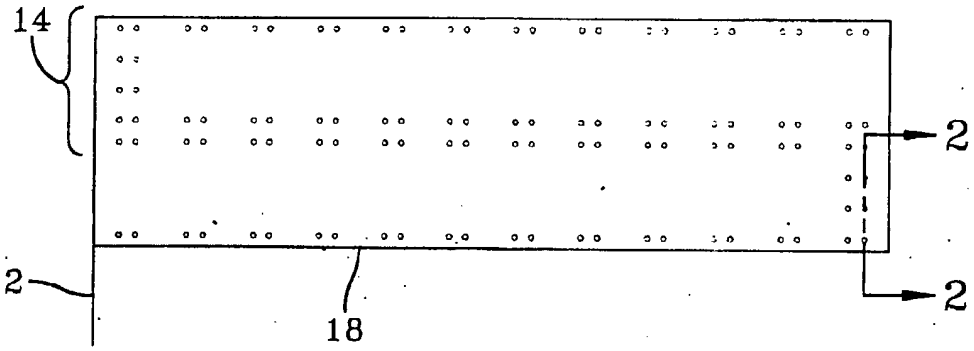
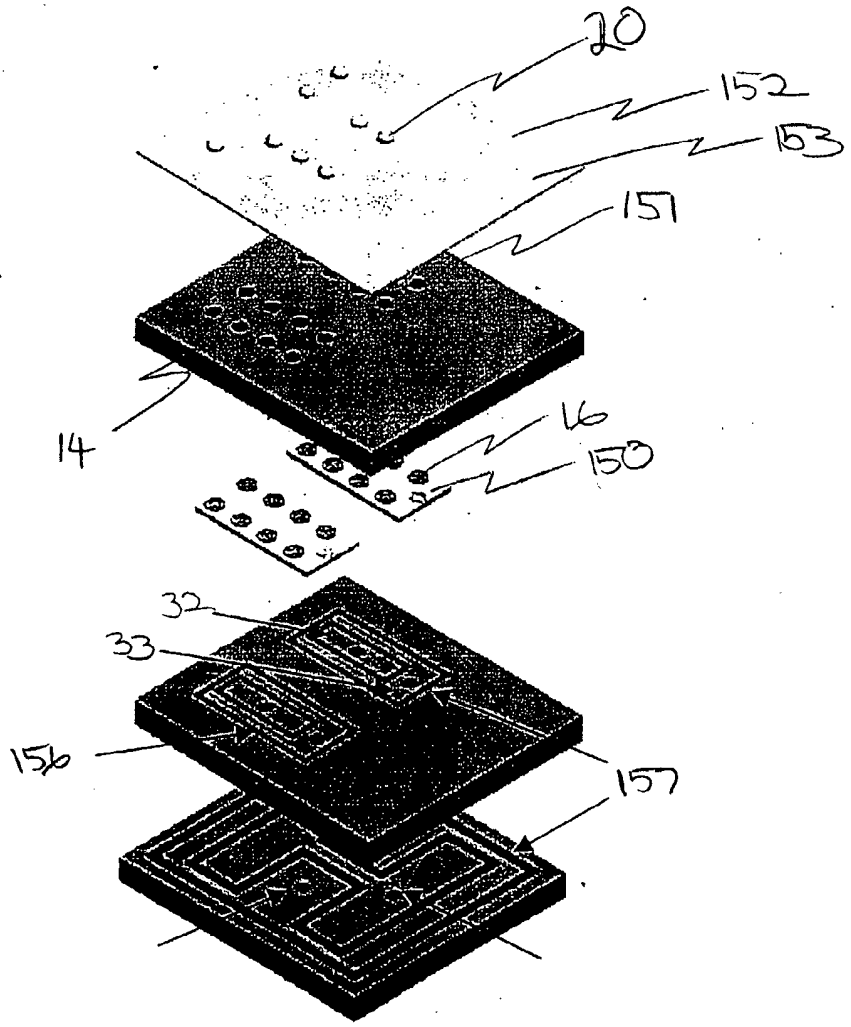


FIG-2



FIG–3

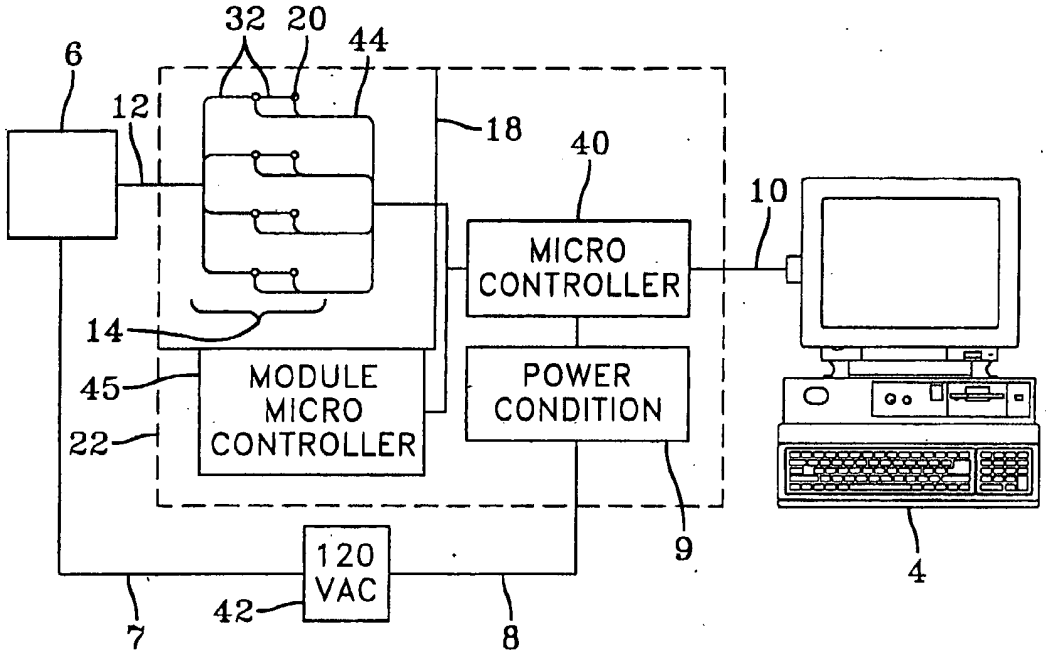

32
20
44
6
12
18
40
10
MICRO
CONTROLLER
14
45
MODULE
MICRO
CONTROLLER
POWER
CONDITION
22
9
120
VAC
42
7
8
4

FIG-4

t_1	t_2	t_3	t_4
0	1	1	1
1	0	1	1
1	1	0	1
1	1	1	0

	COL 1	COL 2	COL 3	COL 4	COL 5
ROW 1	X				X
ROW 2		X		X	
ROW 3		X			X
ROW 4	X			X	

X BRAIL DOT EXTENDED

0 OPEN ELECTRODE VOLTAGE

1 CLOSED ELECTRODE VOLTAGE

t_1	0	1	1	1	0
t_2	1	0	1	0	1
t_3	1	0	1	1	0
t_4	0	1	1	0	1

FIG -5

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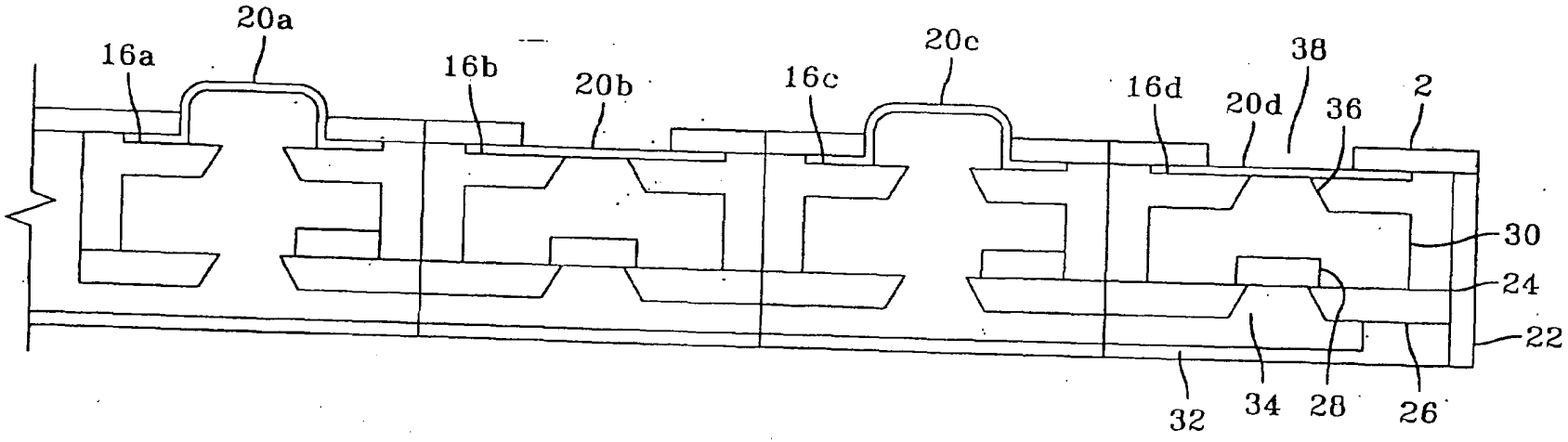

FIG-6

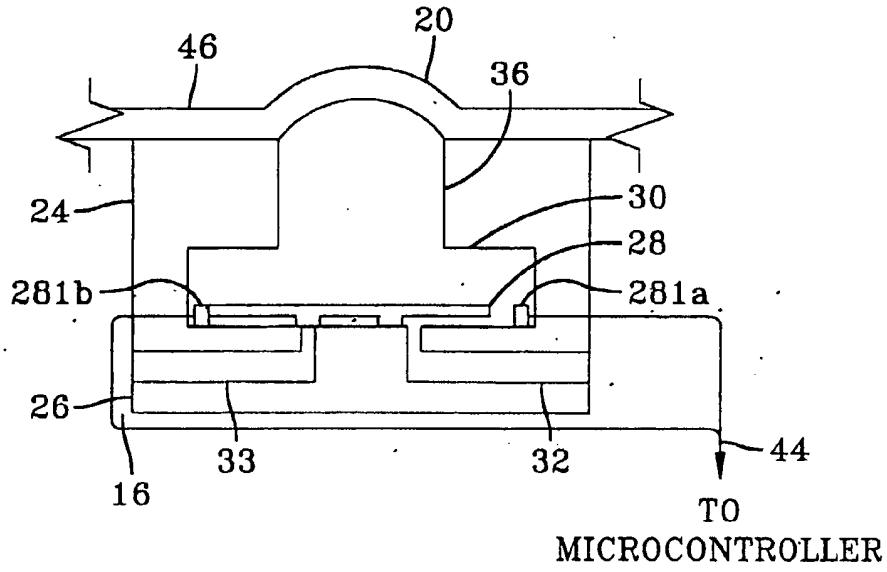
20
46
36
24
30
28
281b
281a
26
33
32
44
16
TO
MICROCONTROLLER

FIG- 7A

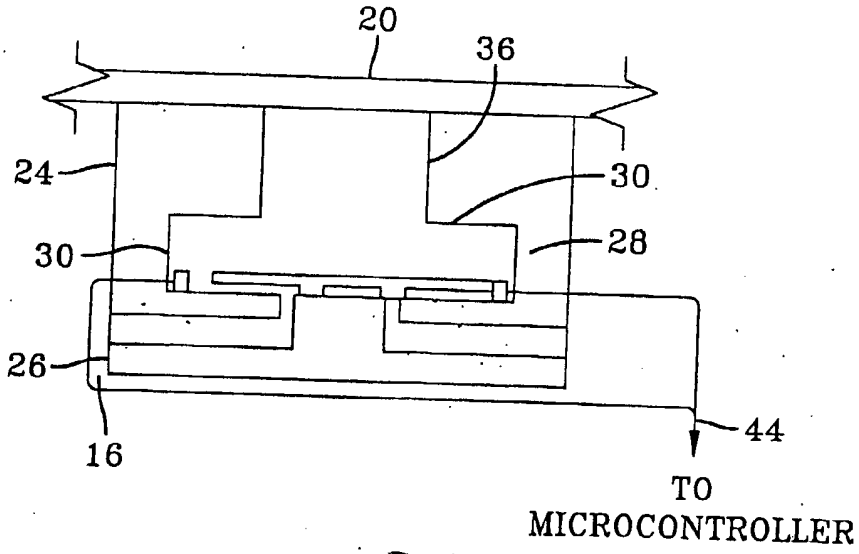
20
36
24
30
30
28
26
44
16
TO
MICROCONTROLLER

FIG- 7B

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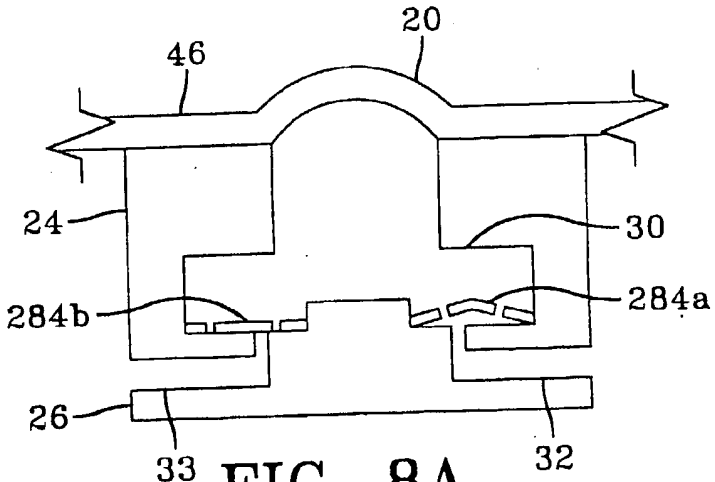


FIG-8A

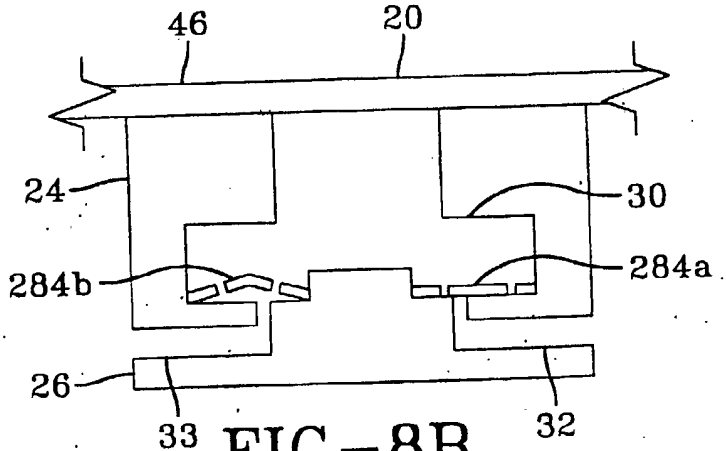
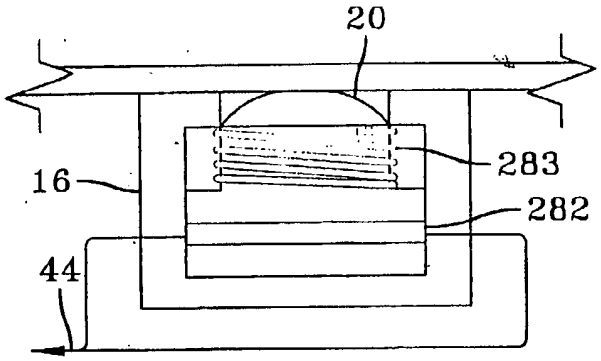
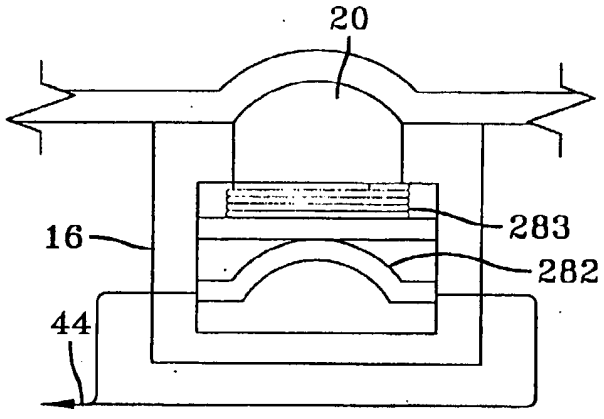


FIG-8B


20
283
16
282
44
TO MICROCONTROLLER

FIG–9A


20
283
16
282
44
TO MICROCONTROLLER

FIG–9B

EP 0 969 509 A2

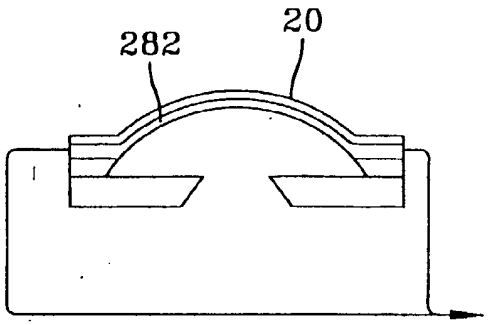


FIG-10A

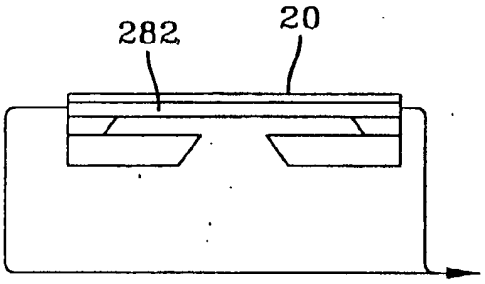


FIG-10B

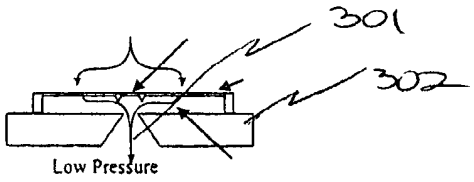


FIG -11A

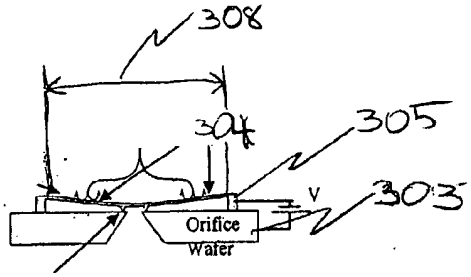


FIG-11B

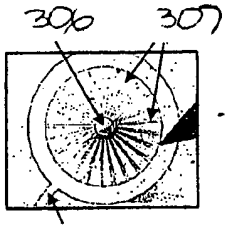


FIG -11C

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FIG - 12